

**A Strategic Plan for
New York State's MPOs:
Using Advanced Technology to Obtain
and Apply Transportation Planning Data**

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Today's Discussion

- Study Challenge
- Objectives, Guiding Principles & Approach
- Products to Date
- Findings & Observations to Date
- Institutional Strategy
- Next steps

Disclaimer

The opinions and positions expressed today are that of the presenter **only** and **do not** necessarily represent the opinions and positions of the New York State Association of Metropolitan Planning Organizations, the Binghamton Metropolitan Transportation Study, any members of the study steering committee, or Wilbur Smith Associates or its subcontractors.

Study Challenge

- MPOs face a world that constantly demands more of them
 - *“represent reality more credibly”*
- MPOs haven’t always been able to keep pace with demands
- So much technology “out there” – can’t we find a way to use it to help MPOs do their job better, faster, and more cost-effectively?
- But...what technologies, where, who, how?

Study Challenge

New York State

12 MPOs

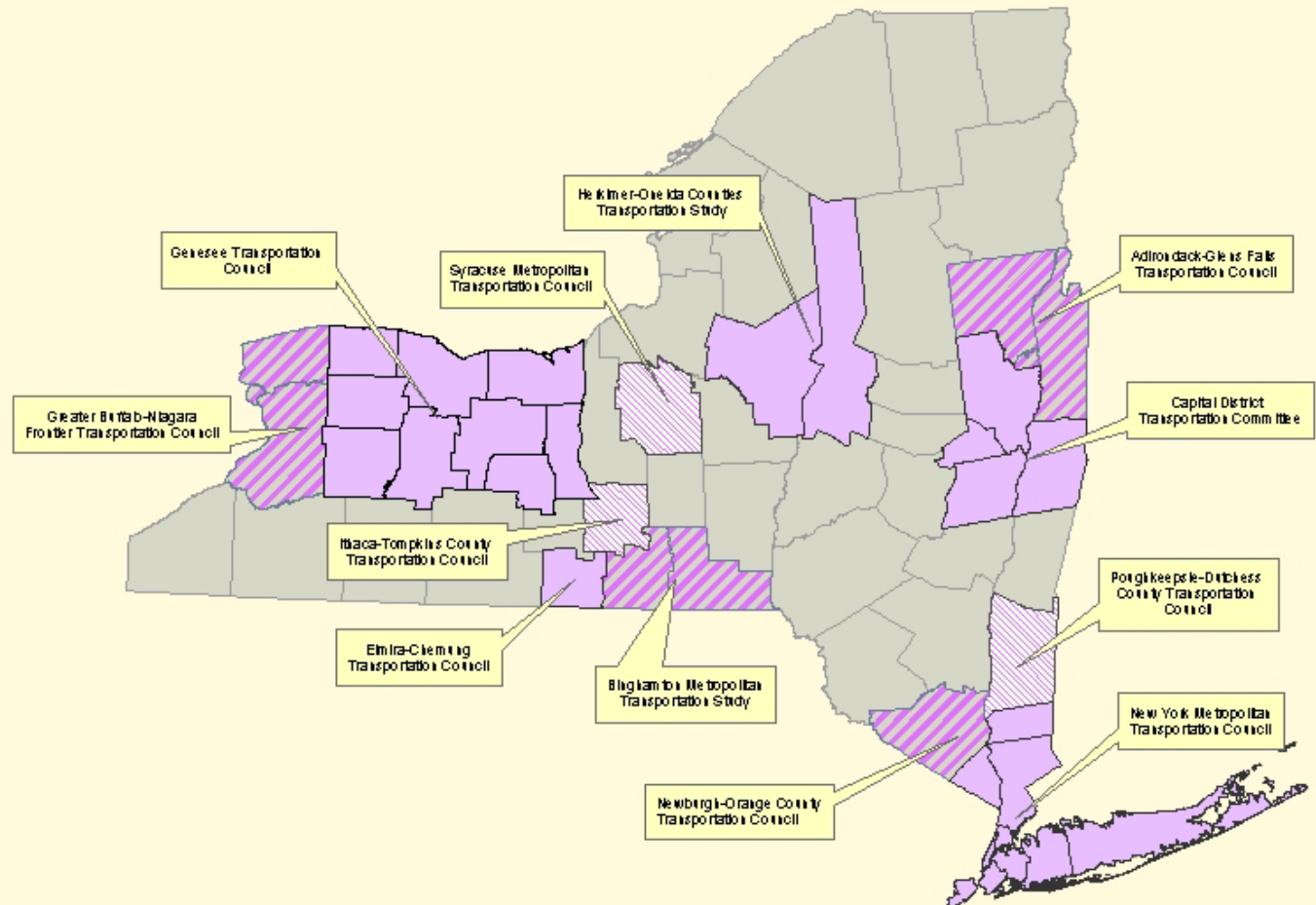
NYSDOT HQ
and 11 Regions

62 counties

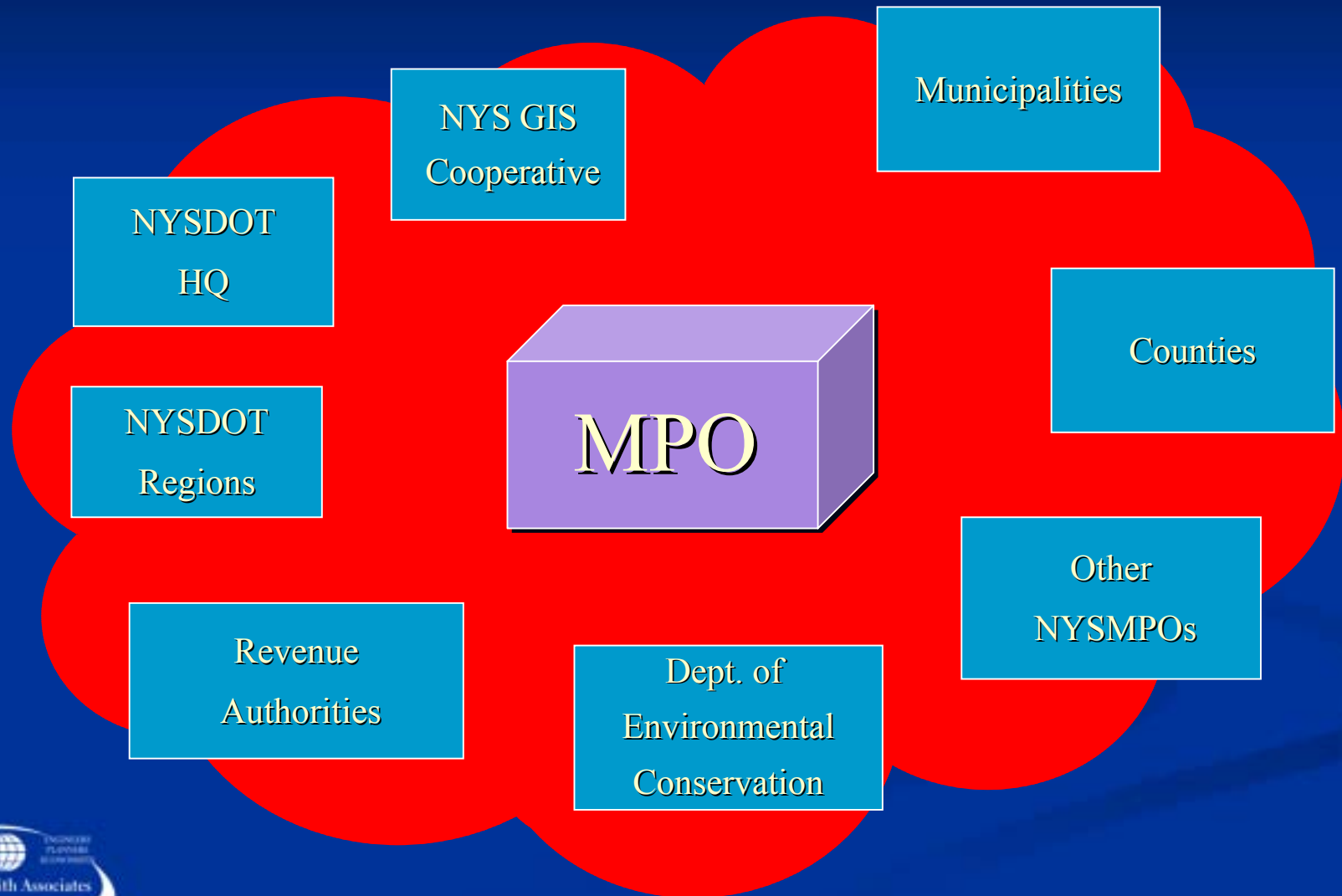
Multiple toll
authorities

Multiple transit
agencies

Various
TMCs/TOCs



Study Challenge



Study Objectives

- Improve quality of data and decision-making
 - Minimize data collection and management costs
 - Build upon existing technologies
 - Develop data collection strategies appropriate to scale of application
 - Develop lasting institutional structure(s) for efficient and effective data management
- **End Product: A Strategy for Applying Advanced Technology Data Collection Opportunities to Transportation Planning In New York State**

Guiding Principles



Leverage emerging/on-going technology efforts

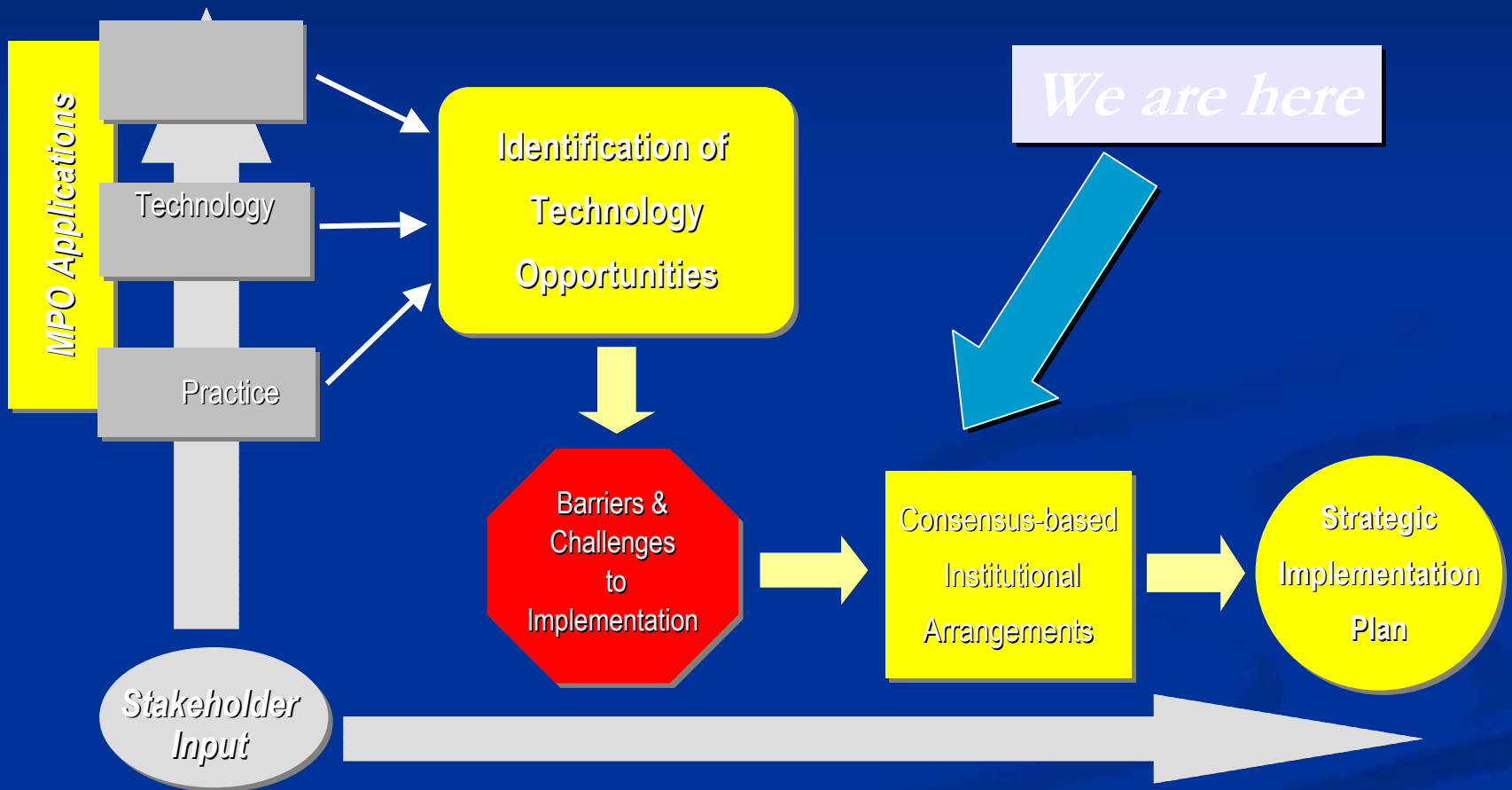
- Statewide and Regional ITS Architectures



Leverage successful data utilization/sharing efforts

- MPO database, GIS, and IT development efforts
- GIS Consortium

Approach

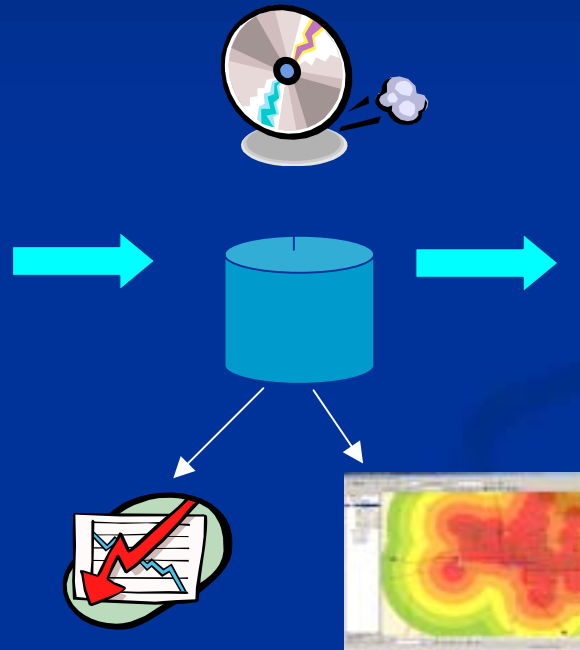


Approach

Data Types:

- Land Use
- Demographic
- Economic
- Household Surveys
- System Inventory
- Travel
 - Traffic
 - Transit
 - Incident
 - Emergency
 - CVO

Management/Analysis:



Information Applications

- Congestion Management
- Corridor Planning
- Travel Demand Analysis
- Project and Program Evaluation
- Safety Planning
- Transit Service Planning
- Air Quality Analysis
- Equity / EJ Analysis
- Operations Planning

Institutional and Technical Challenges !

Products (to date)

- Statewide MPO Data Needs And Capabilities Workshop
- Statewide and National Data Collection Technologies “Scanning” Report
- Case Studies of “Best Practices” in New York State and Nationwide
- Issues Brief on Institutional Barriers

Findings & Observations (to date)

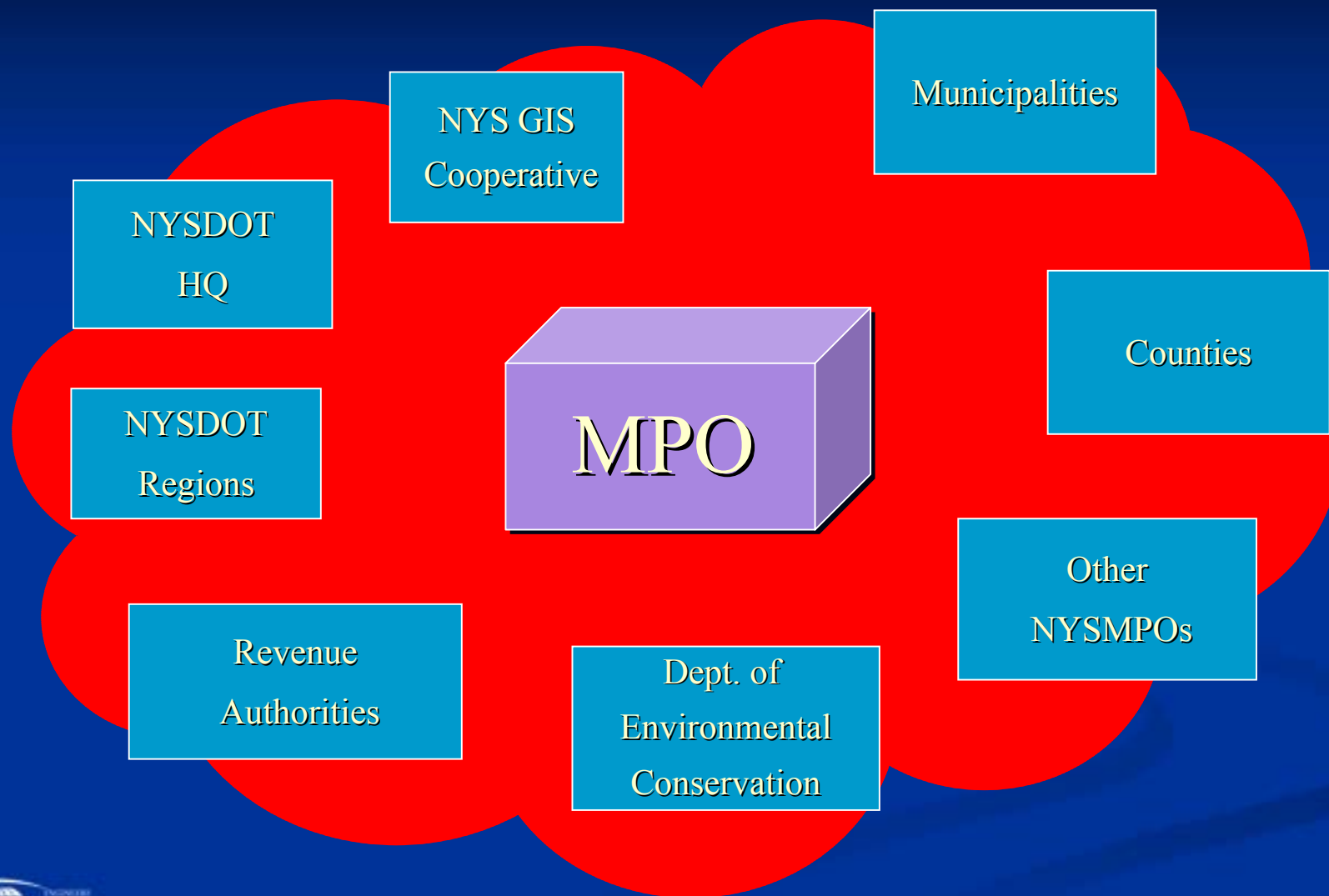
Commonalities among “best practices:”

- Leadership from at least one source
- “Enlightened self-interest”
- Patience and perseverance
- Multi-player cooperation/collaboration
- Setting aside of “turf” concerns
- Recognition of application’s value-added, even if not immediately quantifiable

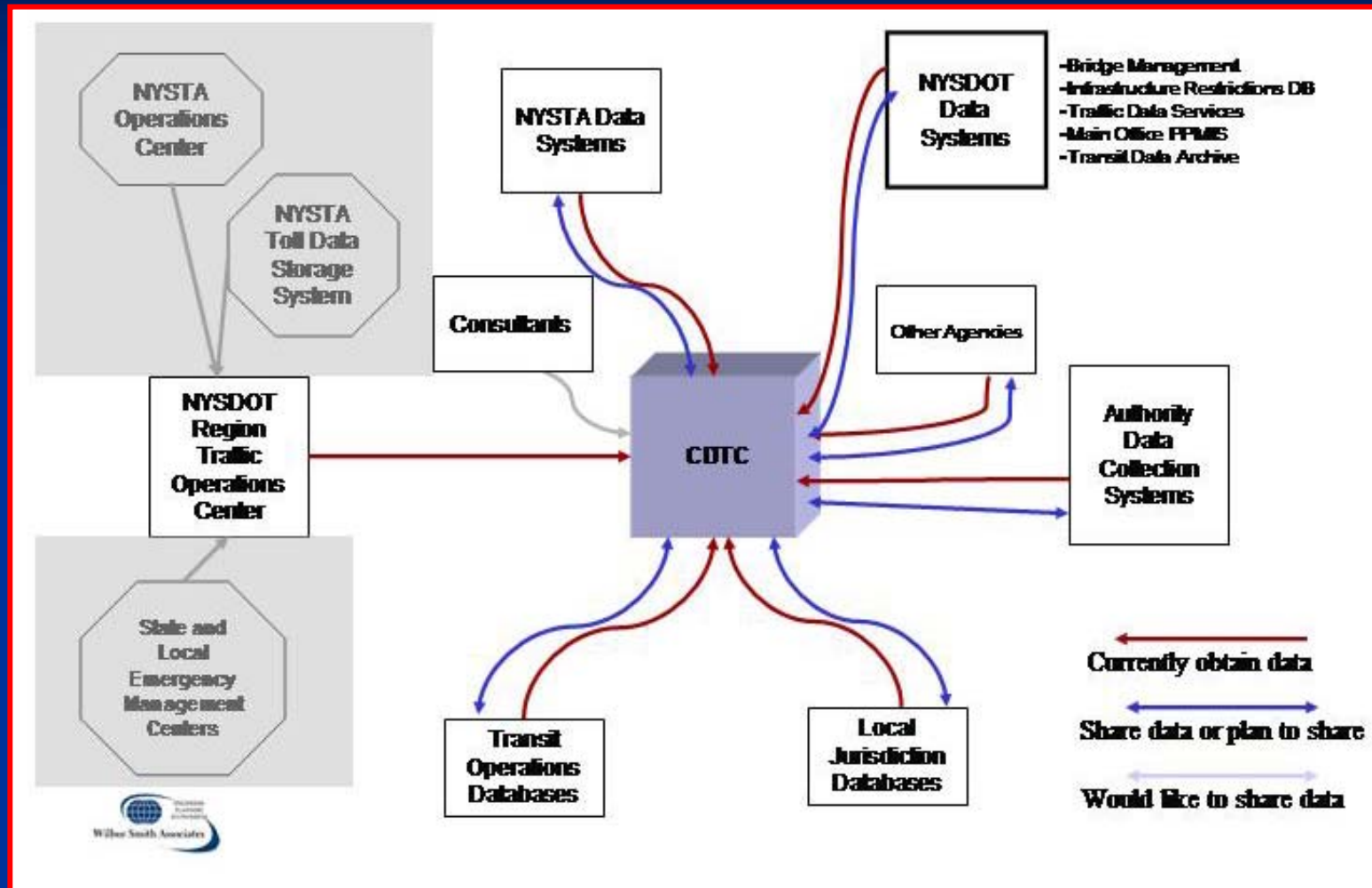
Institutional Strategy

- Understand and characterize existing institutional arrangements and relationships
- Identify strong and value-added relationships
- Identify key gaps in information flows or data acquisition/management arrangements
- Identify options for strategically addressing long-term data acquisition and management needs
 1. Build on what works
 2. Leverage new and emerging opportunities

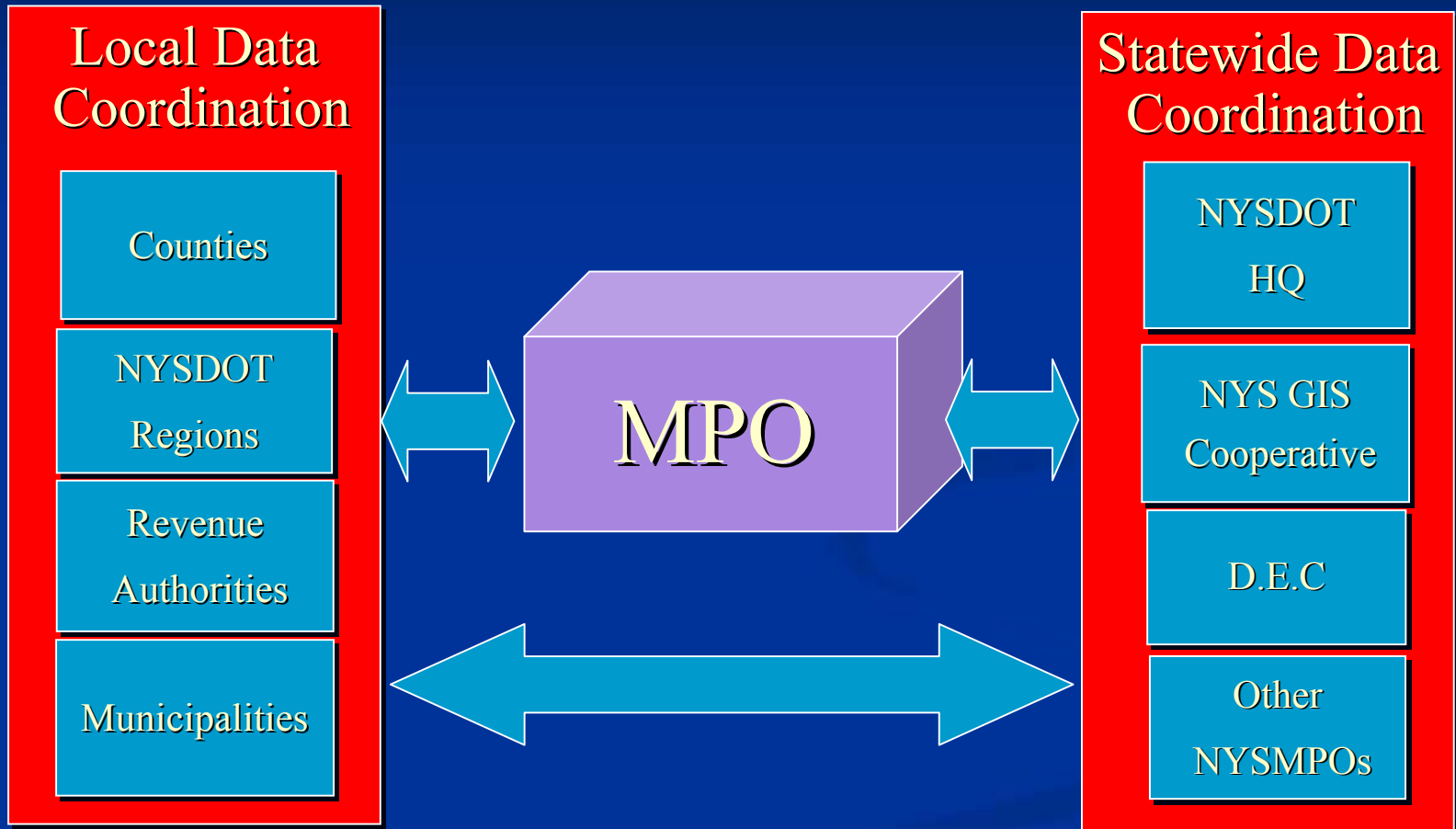
Institutional Strategy



Institutional Strategy

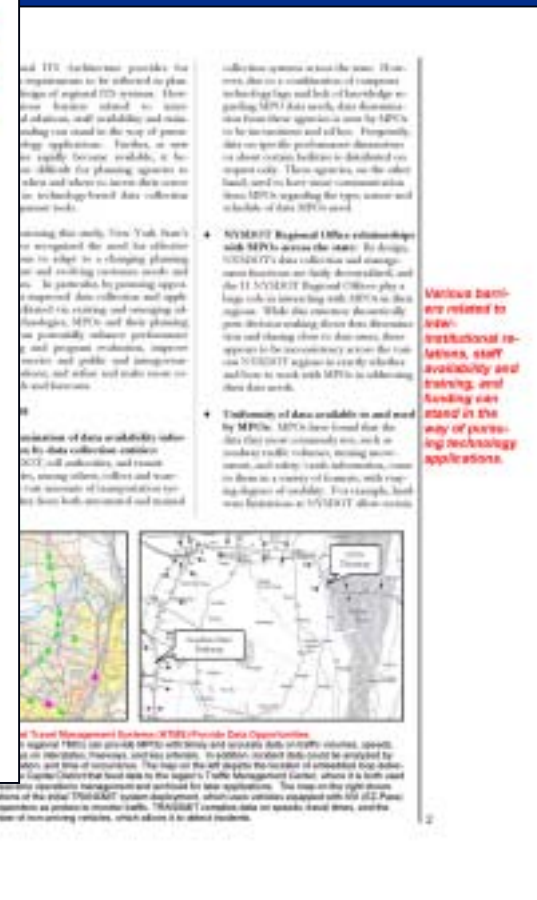
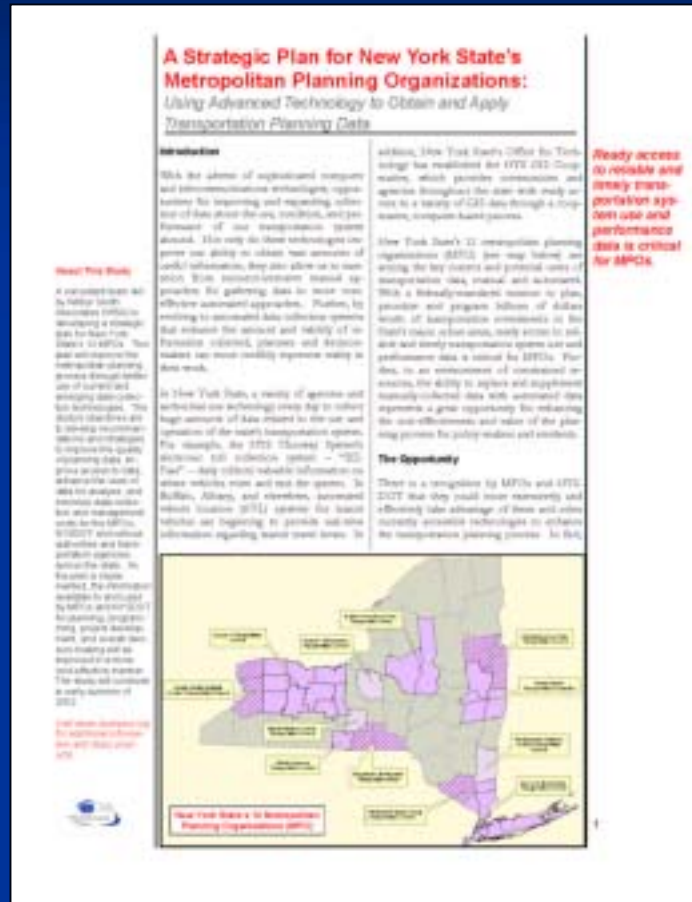


Institutional Strategy



Institutional Strategy

“Issue Brief”
created to help
engage
stakeholders
and data
management
entities in the
institutional
strategy process



Next Steps

- Statewide workshop on addressing institutional barriers
 - MPOs, NYSDOT (HQ & Regions), revenue authorities, transit agencies, others
- Strategic Plan for MPOs and planning partners in NYS
- NYSMPO web-based database on planning data

Additional Information

New York State Association of MPOs – study reports and products available here

www.nysmpos.org

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